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APPLICATION NO	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/727,128		12/03/2003	Juliana Parente	0876-0192	4758	
47050	7590	09/11/2006		EXAM	EXAMINER	
RYNDAK			PRATT, HELEN F			
	200 W MADISON STREET SUITE 2100				PAPER NUMBER	
CHICAGO	, IL 6060	2	1761			

Please find below and/or attached an Office communication concerning this application or proceeding.

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-		Application No.	Applicant(s)					
		10/727,128	PARENTE ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Helen F. Pratt	1761					
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet	with the correspondence address	••				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DONA IN THE MAILING DONA IN THE MAILING DONA IN THE MONTHS from the mailing date of this communication. Or period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may will apply and will expire SIX (6) Mi . cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communical ABANDONED (35 U.S.C. § 133)					
Status			•					
1)	Responsive to communication(s) filed on							
	☐ This action is FINAL . 2b)⊠ This action is non-final.							
3)	,							
•	closed in accordance with the practice under E							
Disposit	ion of Claims							
4)🖂	Claim(s) 1-47 is/are pending in the application.			•				
	4a) Of the above claim(s) is/are withdraw							
	Claim(s) is/are allowed.							
6)⊠	Claim(s) 1-47 is/are rejected.							
	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction and/o	r election requirement.	•					
Applicati	ion Papers							
9)	The specification is objected to by the Examine	r.						
10)	The drawing(s) filed on is/are: a) acce	epted or b)□ objected t	o by the Examiner.					
	Applicant may not request that any objection to the							
	Replacement drawing sheet(s) including the correct							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attach	ed Office Action or form PTO-152	2.				
Priority ι	under 35 U.S.C. § 119							
_	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C.	§ 119(a)-(d) or (f).					
	1. Certified copies of the priority documents							
	2. Certified copies of the priority documents							
	3. Copies of the certified copies of the prior		n received in this National Stage					
* 0	application from the International Bureau	` ' ' '						
3	See the attached detailed Office action for a list	or the certified copies no	ot received.					
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Attachmen	t(s) e of References Cited (PTO-892)	🗖						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		v Summary (PTO-413) o(s)/Mail Date					
3) 🔯 I nfo rr	nation Disclosure Statement(s) (PTO/SB/08)	5) D Notice of	f Informal Patent Application					
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DETAILED ACTION

Claim Objections

Claim 2 is objected to because of the following informalities: it is not known what the phrase "goinic acid" refers to. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 11-13 are indefinite in the use of the phrase "refraining from supplying citric acid into the flow of juice". It is not clear whether citric acid can be added or not.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-18, 20-24, 31-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Meyer et al. (5,474,793).

Meyer et al. disclose a process for making a calcium supplemented not-from concentrate (NFC) fruit juice by adding calcium hydroxide to circulating acidified NFC

juice stream, which contains citric and malic acids (abstract, col. 10, lines 21-34, col. 6, lines 40-45). Claims 1-5 differ from the reference in the steps of first supplying the calcium into the juice using an in-line mixer along the flow of the juice, and then supplying acid downstream using a mixer. However, no patentable distinction is seen in merely reversing the process steps absent a showing of unexpected results in adding the calcium to the juice stream first since the same calcium compounds would have been made whether adding acid to calcium or calcium to acid. Also, nothing new is seen in adding the acid using a mixer, since mixers are also used upstream. Therefore, it would have been obvious to reverse the steps of the process since the same product is made.

Phosphoric acid is disclosed in col. 5, lines 45-50 as in claim 6.

Claims 7 and 8 further require various combinations of acids. However, the reference discloses that various mixtures of acids and types of calcium can be added (col. 5, lines 45-50, col. 10, lines 20-30).

Claim 9 requires that the calcium is added and acid at about the same time, but at different locations along the flow of juice. Certainly, this is occurring in the reference as disclosed above.

Claim 10 further requires adding the acid source within 5 minutes of adding calcium. As the patent shows the reverse of adding calcium to an acidified juice stream, nothing new is seen in adding acid within a particular length of time to a calcium-containing stream since the same chemical reaction will occur. Therefore, it would have

been obvious to add the chemicals to the juice stream within certain time frames in order to not degrade the product.

Claims 11-13 further require "refraining from supplying citric acid into the flow of juice". However, as certainly orange juice already contains citric, and the addition of other acids such as malic make well known soluble forms of calcium, it would have been obvious to add other acids to enhance the solubility of calcium.

Claim 14 further requires that the juice has from .02 to .25% calcium. Meyer et al disclose the addition of 0.05 to .3% by weight, and from 0.1 to .26% by weight (col. 6, lines 58-65, col. 8, lines 25-31, lines 60-65).

Claim 15 requires from 0.06 to about 0.8 5 acid in the composition. Meyers discloses the addition of 0.37 of acid, which is within the claimed range (col...8, lines 25-31).

Claim 16 further requires a flow rate of from 150 to 400 gallons per minute of juice. However, the reference discloses that controlling the conditions such as flow rate, acidulants and powder additions are within the skill of one in the art. Therefore, it would have been obvious to control the flow rate as claimed.

Claims 17 and 18 require supplying the calcium and acid in particular ratios. However, nothing new is seen in determining how much acid to how much calcium is needed to make a specific product, as applicants are not inventing new calcium compounds. Therefore, it would have been obvious to vary the amounts of calcium to acid in order to make known products.

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Claims 20-24 further require a NFC juice, which has been disclosed above. The limitations of claims 20-24 have been disclosed above and are obvious for those reasons.

Claim 31 further requires that 90% of the calcium remain solubilized for at least five weeks. As the claimed process has been shown, it is seen that the calcium would have been solubilized for this amount of time. Therefore, it would have been obvious to make a product, which contains solubilized calcium.

The claimed amount of solubilized calcium is disclosed as in Meyer et al. as in claim 32 –35 (abstract). The limitations of claims 36-37 have been disclosed above and are obvious for those reasons.

Claims 29 and 30, 38-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over the above references as applied to the above claims, and further in view of Chang et al. (7,052,725) and Kaji H (JP 4008767 A).

Claims 29 and 30 are product by process claims requiring particular amounts of the daily value of calcium and weights of calcium. Chang et al. disclose the use of various amounts of calcium in 1 liter of beverage (col. 8, lines 14-50). As it is known how to fortify beverages with calcium, it would have been within the skill of the ordinary worker to fortify with whatever amount was required as shown by Chang et al.

Meyer et al. disclose the use of NFC juices containing from 0.05 to .26% calcium (abstract). Also Kaji H discloses making a soft drink containing 3 parts of a calcium salt made from a mixture of calcium citrate, malate and lactate (abstract). The fact that the procedures of the reference are different than that of applicant is not a sufficient reason

for allowing the product-by-process claims since the patentability of such claims is based upon the product formed and not the method by which it was produced. See In re Thorpe 227 USPQ 964. The burden is upon applicant to submit objective evidence to support their position as to the product-by-process claims. See Ex parte Jungfer 18 USPQ 2D 1796). Therefore, it would have been obvious to add within the claimed amounts of calcium to beverage products.

Claims 38, 40-47 further require various amounts of calcium, which have been discussed above and are obvious for those reasons.

Claim 39 contains 0.1 % calcium as disclosed by Meyer et al in a NFC juice (abstract).

Allowable Subject Matter

Claim 19 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 25-28 are free of the prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen F. Pratt whose telephone number is 571-272-1404. The examiner can normally be reached on Monday to Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Milton Cano, can be reached on 571-272-1398. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Hp 9-6-06

HELEN PRATT
PRIMARY EXAMINER

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